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DATE MAILED: 03/30/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

30565 7590 03/30/2009

WOODARD, EMHARDT, MORIARTY, MCNETT & HENRY LLP 111 MONUMENT CIRCLE, SUITE 3700 INDIANAPOLIS, IN 46204-5137

EXAMINER				
CLEMENTE, ROBERT ARTHUR				
ART UNIT	PAPER NUMBER			
1797				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/597,917	08/11/2006	Frederick Ian Wood	7540-2	7872	
TITLE OF INVENTION: FILTER UNIT					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This is appropriate. All further c indicated unless corrected maintenance fee notificati	orrespondence including d below or directed oth	or transmitting the ISSI ig the Patent, advance of terwise in Block 1, by (orders and notification of m a) specifying a new corres	aintenance fees woondence address;	red). Blocks 1 through 5 s fill be mailed to the current and/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDED	NCE ADDRESS (Note: Use Blo	ock 1 for any change of address)	Note Fee(pape have	: A certificate of s) Transmittal. Thi rs. Each additional its own certificate	mailing can only be used for s certificate cannot be used be l paper, such as an assignment of mailing or transmission.	or domestic mailings of the for any other accompanying ant or formal drawing, must
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						(Depositor's name)
						(Signature)
						(Date)
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/30/2009
EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
CLEMENTE, ROE	BERT ARTHUR	1797	055-502000			
	ndence address (or Cha /122) attached. cation (or "Fee Address' or more recent) attach // RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	nge of Correspondence Indication form ed. Use of a Customer TO BE PRINTED ON	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor is titled, no name will be; THE PATENT (print or typ data will appear on the pe pt a substitute for filing an a (B) RESIDENCE: (CITY	ely, firm (having as a gent) and the name news or agents. If or inted. e) tent. If an assignussignment.	member a 2es of up to no name is 3ee is identified below, the d	ocument has been filed for
Please check the appropria	ate assignee category or	categories (will not be p	rinted on the patent):	Individual 🚨 Co	rporation or other private gr	oup entity 🗖 Government
4a. The following fee(s) as Issue Fee Publication Fee (No	small entity discount p		A check is enclosed. Payment by credit care	I. Form PTO-2038 authorized to char	ge the required fee(s), any de	
- 11	SMALL ENTITY statu	s. See 37 CFR I.27.			L ENTITY status. Sec 37 C	
NOTE: The Issue Fee and interest as shown by the re	runneation Fee (if requeecords of the United Sta	irea) will not be accepte tes Patent and Trademark	ed from anyone other than the k Office.	e applicant; a regi	stered attorney or agent; or the	ne assignee or other party in
Authorized Signature _				Date		
Typed or printed name				Registration N		
This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vi	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or re 1.14. This collection is estive y depending upon the indivine the Completed Forms TO COMPLETED FORMS TO	etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS	he public which is to file (an ninutes to complete, includir mments on the amount of ti Trademark Office, U.S. Dep I. SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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111 MONUMENT CIRCLE, SUITE 3700			ART UNIT	PAPER NUMBER
INDIANAPOLIS	, IN 46204-5137	1797		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 220 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 220 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/597 917 WOOD, FREDERICK IAN Notice of Allowability Examiner Art Unit ROBERT A CLEMENTE 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 12 March 2009. The allowed claim(s) is/are 1,4 and 7-9. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) X All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \(\overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

4. ☐ Examiner's Comment Regarding Requirement for Deposit

Information Disclosure Statements (PTO/SB/08).

Paper No./Mail Date 20090302

of Biological Material

 Interview Summary (PTO-413), Paper No./Mail Date .

Other .

7.

Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

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DETAILED ACTION

Response to Arguments

Applicant's arguments, see pages 4 - 7, filed March 12, 2009, with respect to claims 1 - 11 have been fully considered and are persuasive. The rejection of claims 1 - 11 has been withdrawn as claim 1 is in condition for allowance, claims 4 and 7 - 9 depend from claim 1, and claims 2, 3, 5, 6, 10, and 11 have been cancelled.

Allowable Subject Matter

- Claims 1, 4, and 7 9 are allowed.
- The following is an examiner's statement of reasons for allowance:

The examiner did not find any prior that taught or suggested a method of forming a filter unit comprised of a filter element and an encircling peripheral encasement frame to which the filter element is sealed, comprising the steps of: providing a pleated filter element having front and rear faces and a bounding peripheral edge, locating around the peripheral edge of the element a mould unit which seals against peripheral regions of the front and rear faces and which together with the peripheral edge and marginal regions of the front and rear faces of the filter element defines a mould cavity, said mould unit having tapering projections that bite into said peripheral regions of the front and rear faces so as to cause a depression therein, filling the mould cavity with a solidifiable, liquid resin composition, effecting conversion of the liquid to a solid, and removing the mould thereby producing the filter element.

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US Patent No. 6,045,600 to Michaelis and French Patent Specification No. 2 140 536 (hereinafter the Norit reference) represent the closest prior art. The examiner generally agrees with Applicant's arguments that there is no motivation for one of ordinary skill in the art to combine these references to come up with the method of claim 1 of the instant application. The Norit reference discloses a method of forming a frame around a filter made of a porous plate (1). As disclosed in page 3 lines 27 - 33 of the translation of the Norit reference, the frame is formed by a molding (12, 13) with blades (19) that penetrate the porous plate (1). These blades inherently form a depression in the porous plate. One of ordinary skill in the art, however, would not reasonably use such a molding with a pleated filter media. Pleated filter media is generally formed of a relatively thin sheet and using blades would likely weaken the sheet or cut a hole through the sheet. Thus, although the blades of the Norit reference can be considered tapering projecting that bite into the filter media to cause depressions, these blades are disclosed to penetrate the media, which would reasonably be expected to be disadvantageous for a pleated media because they could create holes in the media inside the frame where particulates could pass through unfiltered.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Other prior art references listed on the PTO-892 (Notice of References Cited) are considered to be of interest disclosing similar methods for forming filter units.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT A. CLEMENTE whose telephone number is (571)272-1476. The examiner can normally be reached on M-F, 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RAC

/Frank M. Lawrence/

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Primary Examiner, Art Unit 1797